

DESCRIPTION

This class A GaAs module is designed for both military and commercial applications. It is capable of supporting any signal type and modulation format, including but not limited to 3-4G telecom, WLAN, OFDM, DVB, and CW/AM/FM. The latest device technologies and design methods are employed to offer high power density, efficiency, and linearity in a small, lightweight package.

**FEATURES**

Over Temp Shutdown

Optional Heatsink

Forward Power Measurement

Over / Under / Reverse Voltage Protection

Temperature Output

High Speed On/Off Control

Specifications subject to change without notice. Typical performance at +12VDC, +25°C, and in a 50Ω system.

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	800		2500	MHz
P1dB Power Output	+39.0	+40.0		dBm
Gain	38.0	40.0		dB
Gain Flatness		2.0		dB ¹
Input Return Loss	-12	-14		dB
Operating Voltage	+11	+12	+13	VDC
Current Draw		5.5	6.0	A
Quiescent Current Draw		0.2		A
Switching Time		1.0	2.0	uS

1 – Gain flatness recorded represents a peak-peak measurement across the **entire operating band**. Gain flatness is typically much lower across significant portions of this band. Consult the gain response plots for details if available.

MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	6 x 3.5 x 0.693	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	7W2 Male	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Holes	--
Weight	14	oz.
Weight with Heatsink	24	oz.

ENVIRONMENTAL / PROTECTIONS

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
Storage Temp Range	-60	+100	°C
Humidity Range	0-100		%
Altitude	0-30,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	+3		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	+ 90		°C

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
A1	GND	Ground
1	TEMP	Temp Monitor: Temp in DegC = (Vout - 0.5V) / 10
2	Amp Enable	TTL On/Off Low=Enable, High=Disable
3	NC	Not Connected
4	GND	Ground
5	FWD	Forward Power Detection
A2	+VDC	Supply Voltage - Range Specified in Datasheet

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	8/2/12	DMC
1	ECN# 12-001	9/5/12	DMC

A

A

B

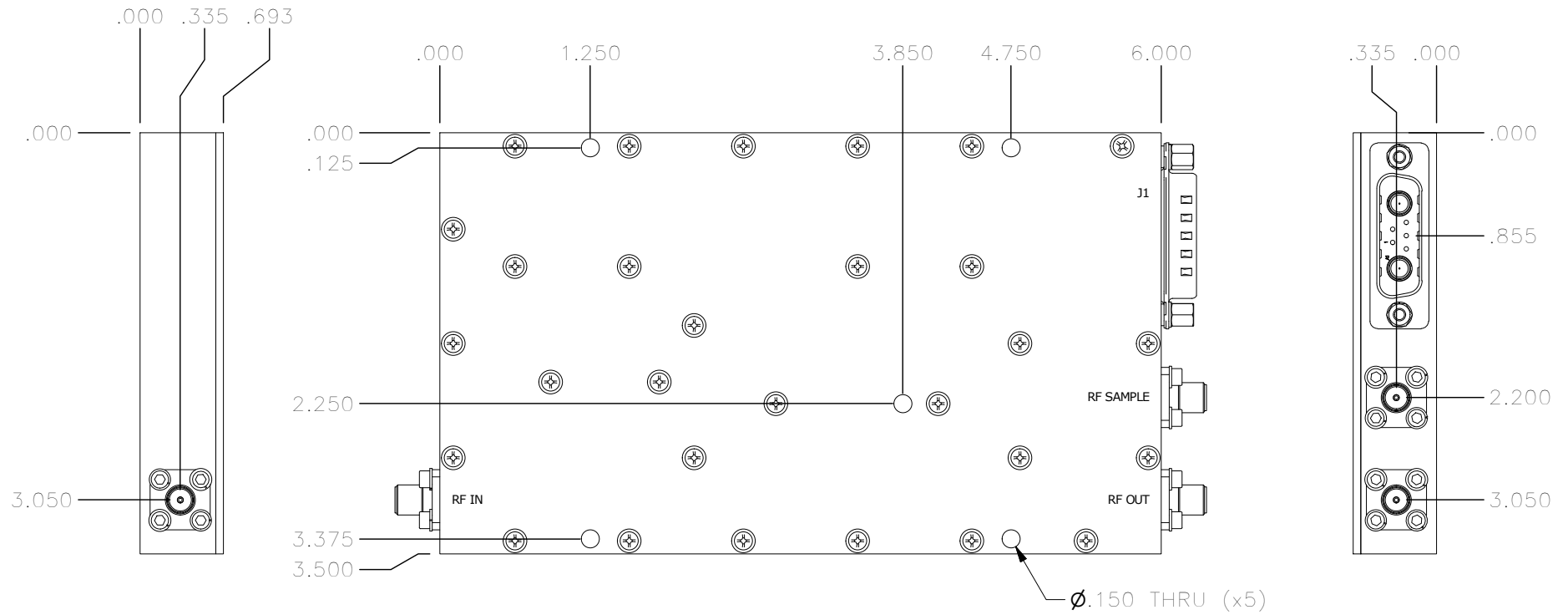
B

C

C

D

D

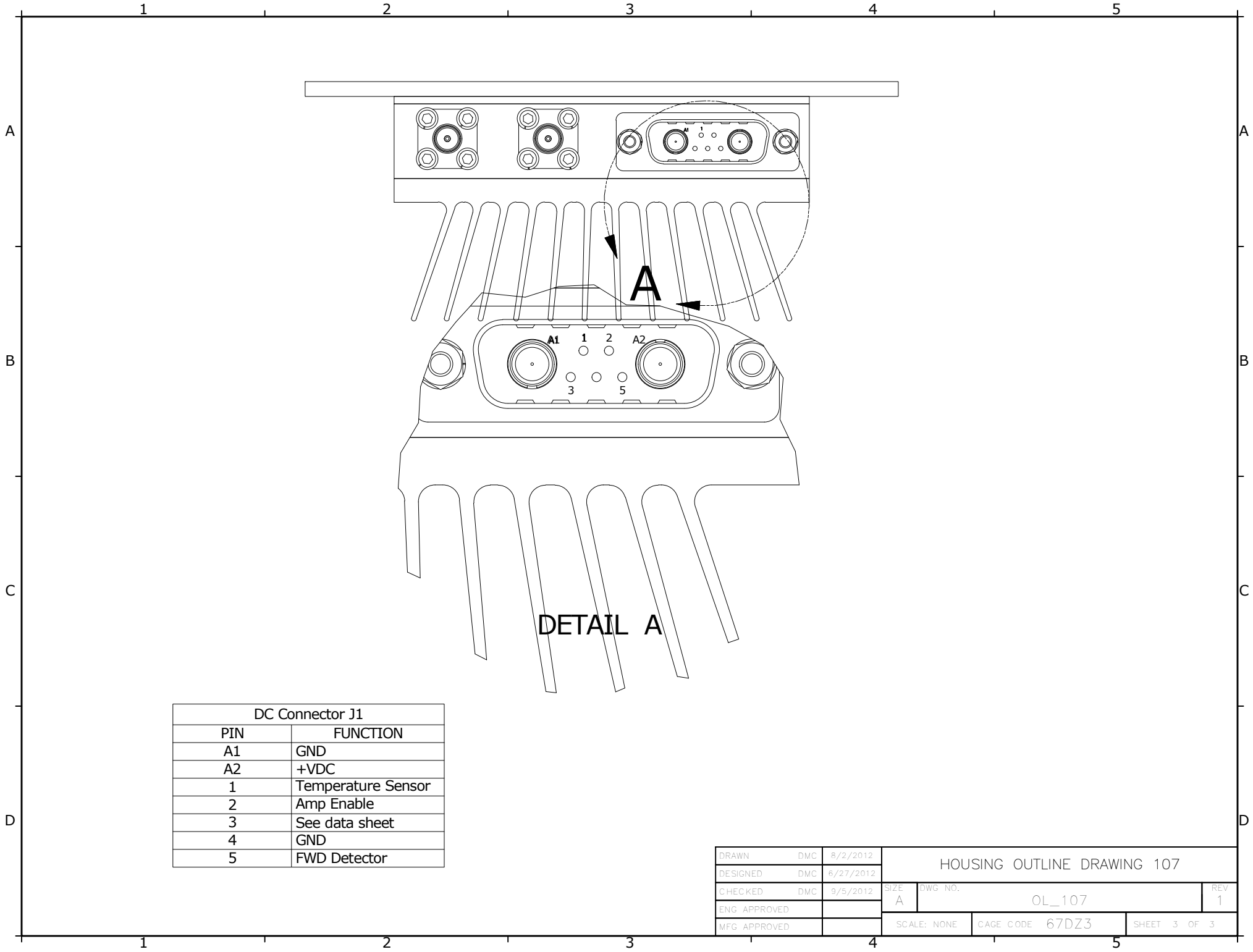


DRAWN	DMC	8/2/2012
DESIGNED	DMC	6/27/2012
CHECKED	DMC	9/5/2012
ENG. APPROVED		
MFG. APPROVED		

DIMENSIONS ARE IN INCHES
UNLESS SPECIFIED OTHERWISE

DECIMALS	FRACTIONS	ANGLES
.XX $\pm .01$	$\pm 1/32$	$\pm 2^\circ$
.XXX $\pm .005$		

		180 TICES LANE BUILDING A, SUITE 107 NORTH BRUNSWICK, NJ 08816 855-558-1001	
		HOUSING OUTLINE DRAWING 107	
SIZE A	DWG NO. OL_107	REV 1	
SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 3	



DC Connector J1	
PIN	FUNCTION
A1	GND
A2	+VDC
1	Temperature Sensor
2	Amp Enable
3	See data sheet
4	GND
5	FWD Detector

DRAWN	DMC	8/2/2012	HOUSING OUTLINE DRAWING 107		
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